Department of Pesticide Regulation
Pest Management Advisory Committee Meeting
February 10, 2011

Air Program Initiatives and Priorities

Air monitoring network

- Purpose
  - Identify common pesticides in air and determine seasonal, annual, and multiple year concentrations.
  - Compare air concentrations to sub-chronic and chronic human health screening levels.
  - Track trends in air concentrations over time.
  - Estimate cumulative exposure to multiple pesticides with common modes of action.
  - Correlate air concentrations with pesticide use and local weather patterns.
- Communities monitored:
  - Ripon (San Joaquin County)
  - Salinas (Monterey County)
  - Shafter (Kern County)
- Monitoring plan: weekly sampling beginning January 2011.
  - Samples collected at one location in each community.
  - One set of 24-hour samples collected each week.
  - 34 pesticides monitored, including 6 fumigants and 11 organophosphates.
- First report in 2012

Volatile Organic Compound (VOC) emissions from non-fumigants in San Joaquin Valley

- State Implementation Plan requires a pesticide VOC reduction of 12% from 1990 level.
- Commitment in 2008 State Implementation Plan amendment: "DPR will implement restrictions to reduce VOC emissions from non-fumigant pesticides by 2014."
- Current regulations contain a trigger for a fumigant allowance program if pesticide VOC emissions exceed a specified level.
- DPR is considering registration requirements or use restrictions for some non-fumigants.
- DPR focusing on inert ingredients in chlorpyrifos and oxyfluorfen products because:
  - Two largest non-fumigant contributors in San Joaquin Valley
  - Liquid "low-VOC" products available
  - Use of low-VOC products likely ensures needed reductions and fumigant allowances not triggered
  - Use of low-VOC products likely has lower agricultural impact, compared to other major non-fumigants

Mitigation of fumigant exposure

- Methyl isothiocyanate (MITC) – permit conditions phased in during Jan – Mar 2011
- Chloropicrin – development of bystander mitigation measures